

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1-10. (Canceled).

11. (Currently Amended) The method of claim ~~[[10]]~~ 12, wherein a temperature difference is subtracted from the desired component temperature in order to obtain the desired coolant temperature.

12. (Currently Amended) ~~[[The]]~~ A method of claim 10 for controlling a cooling system, comprising:

determining a desired coolant temperature at least as a function of a desired component temperature;

wherein a heat input of a driving engine included in the cooling system is taken into consideration in determining the desired coolant temperature.

13. (Previously Presented) The method of claim 12, wherein an energy consumption of the driving engine is taken into consideration in determining the desired coolant temperature.

14. (Currently Amended) ~~[[The]]~~ A method of claim 10 for controlling a cooling system, comprising:

determining a desired coolant temperature at least as a function of a desired component temperature;

wherein a coolant flow is taken into consideration in determining the desired coolant temperature.

15. (Currently Amended) ~~[[The]] method of claim 11, further~~ comprising:  
determining a desired coolant temperature at least as a function of a desired  
component temperature; and  
providing a family of characteristics; ~~[[,]]~~  
wherein ~~[[the]]~~ a temperature difference is:  
derived from the family of characteristics, a coolant flow, and an energy  
consumption; and  
subtracted from the desired component temperature in order to obtain the  
desired coolant temperature.

16. (Previously Presented) The method of claim 15, wherein the desired component temperature depends on an operating point of the driving engine contained in the cooling system.

17. (Previously Presented) The method of claim 16, wherein the desired component temperature depends on at least one of a speed and a torque of the driving engine.

18. (Currently Amended) ~~[[The]] method of claim 10, further~~ comprising:  
determining a desired coolant temperature at least as a function of a desired  
component temperature; and  
providing a regulator to determine a correction temperature which is used to correct the desired coolant temperature, the correction temperature being determined from the desired component temperature and an actual component temperature measured by a temperature sensor.